

# U.S. Government Printing Office

## FDsys Update

Long Term Sustainment of Digital Information for  
Science and Engineering

NIST Interoperability Week

April 24, 2007

# Presentation Outline

- Project overview
- Release schedule and status
- Metadata and Content Packages
- Questions and Answers

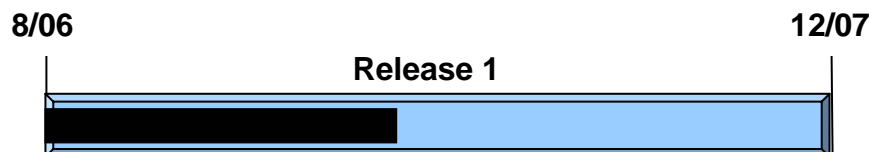
# Challenges to GPO's Mission

- Access to government published information is now widely expected to be electronic.
- Digital information needs to be authentic and verified to be the correct version.
- Digital information needs to be available for access almost immediately.
- Information needs to be preserved, making it available for generations to come.

# FDsys Capability Overview

- FDsys will automate the collection and dissemination of electronic information from all three branches of government.
- Information will be:
  - permanently available in electronic format
  - authenticated and versioned
  - accessible for Web searching, viewing, downloading and printing
  - available for conventional and on-demand printing

# FDsys Release Schedule



## Release 1:

- Accept digital information from all three branches of the Federal Government
- Update to GPO Access
- Information storage to support permanent public access
- Authentication of information received and delivered
- Version tracking of publications



## Release 2 and 3:

- Preservation processing of information to support access into the future
- Information harvesting tools to collect information on agency websites
- Automated version tools
- Extended storage to support harvested and legacy publications as required.
- Enhanced information authentication



# FDsys Program Status

- Release 1B, the internal pilot, is in the development phase – detailed internal testing will start in late May.
- Initial Release 1B functionality has been demonstrated in early April.
- Beta testing of Release 1B is planned for this summer.
- The System Design Review for Release 1C, the first public launch, will be completed May 8<sup>th</sup>.

# FDsys Digital Preservation

- Plan for hardware & infrastructure obsolescence
- Plan for software obsolescence
- Plan for possible failure modes of archives
- Design around digital preservation standards and best practices

# Metadata and Content Packages

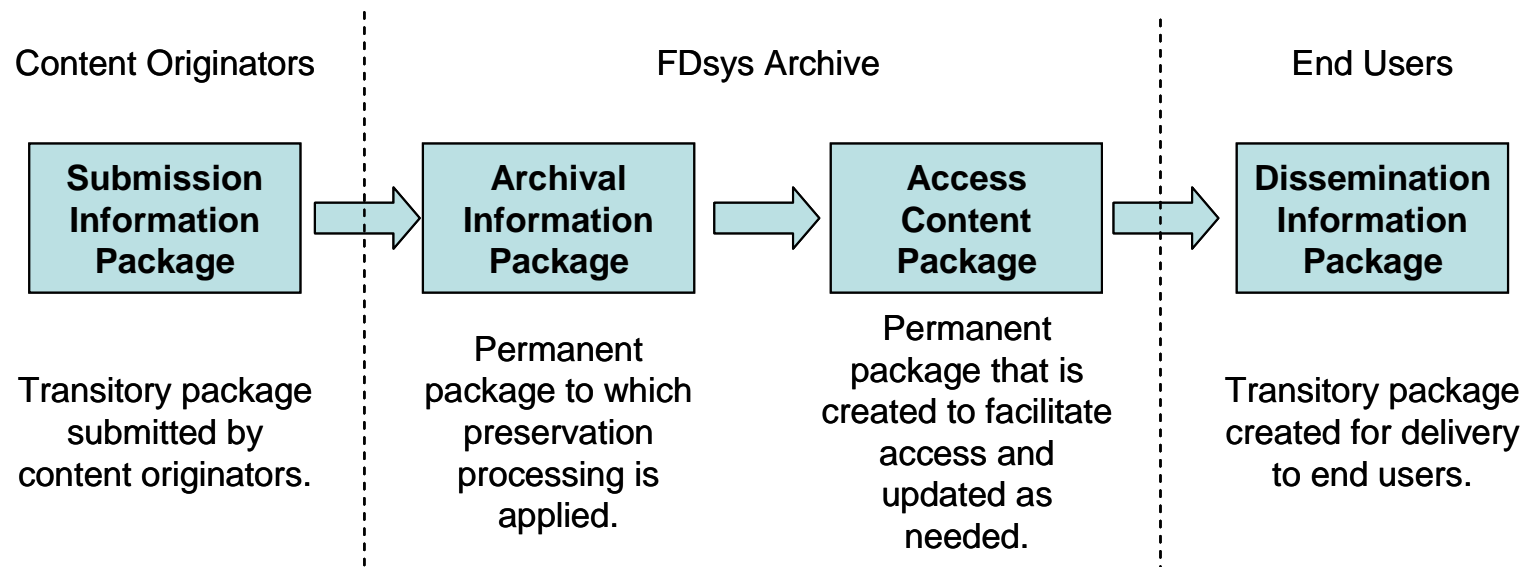
- Data about data
- Popular Web sites have placed metadata in the public consciousness
  - Flickr
  - LibraryThing
  - Del.icio.us.



# What is a package?

- Content and metadata – together forever
- FDsys follows the OAIS reference model.
- Design based on content packages, where metadata is aggregated in conceptual containers.

# Information Package Lifecycle

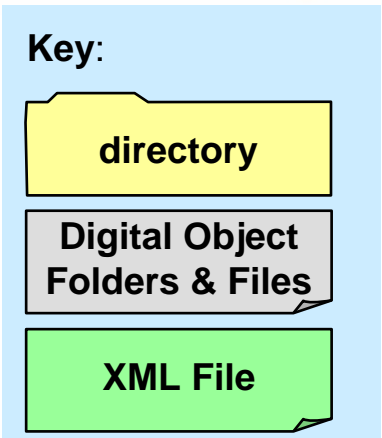
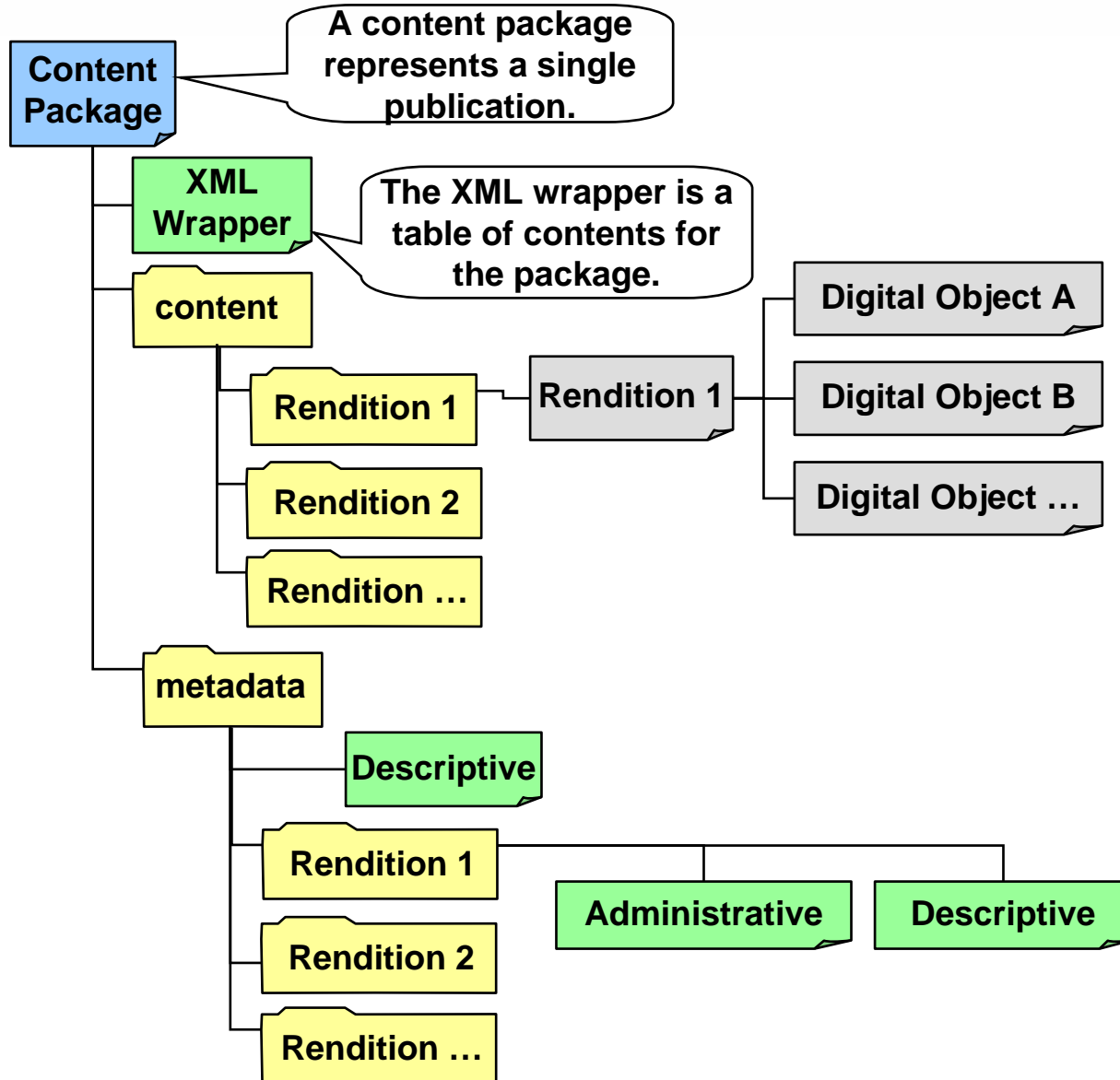


# METS: Data about Metadata

- Standardized framework for holding and exchanging metadata
- Common practice in the preservation community
- Produced by the Library of Congress Standards Office and the Digital Library Federation
- Well understood and supported

# Content Metadata

- METS and FDsys schema registry allow us to update or add new schemas.
- METS has places to reference the three types of metadata: descriptive, administrative, and structural.



# Descriptive Metadata

- Descriptive metadata is information about the intellectual content, similar to a standard bibliographic record
- Each package in FDsys will have a MODS record
- Metadata in other schemas submitted to the system will be associated and used

# Administrative Metadata

- Administrative metadata is information for handling, maintenance, and archiving of an object
- Each representation and each digital object in the system will have a PREMIS object entity file to record information necessary for preservation processes.
- PREMIS records chain of custody and provenance information
- Other schemas in the administrative metadata section will include schemas for technical information

# A Layered Approach

- Packages have content at the core, and at any point it can be enriched with metadata
- A publication is submitted to FDsys with metadata
- In some cases, FDsys can extract metadata from content
- When a publication is cataloged, the MARC record is translated into MODS for FDsys



# Questions and Answers

- Contact us by email [pmo@gpo.gov](mailto:pmo@gpo.gov)
- Visit the FDsys Website  
<http://www.gpo.gov/projects/fdsys.htm>